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rBOX101-6COM

Robust Din-rail Fanless Embedded System with Intel® Atom™ Processor Z510PT/ Z520PT up to 1.33 GHz, Intel® US15WPT Chipset and 6 Isolated COM



Front view



Features













Fanless operation

- Wide temperature operation of -40 °C ~ +70 °C
- Supports 6 isolated COM ports, 2 USB ports,
- 1 isolation DIO (4-IN/OUT), VGA port
- Supports one isolated 10/100/1000Mbps & one isolated 10/100Mbps Ethernet
- SNMP V1/V2c
- Support one CompactFlash™
- Two power paths with terminal block and 12-48VDC
- Supports AXView monitoring software package

Introduction

rBOX101-6COM Din-rail fanless embedded field controller supports extra low power Intel® Atom™ processors Z510PT and Z520PT with extended temperature range of -40°C to 70°C for use in extreme operating environments.

To prevent ESD and over-voltage, this super compact-size rBOX101-6COM is equipped with six isolated RS-232/422/485, one isolated 10/100/1000Mbps Ethernet & one isolated 10/100Mbps Ethernet and one isolated DIO port for offering magnetic isolation protection. Two power paths input minimize the risk of data loss in the event of a single power failure. Powered by IP30 housing, wide operating temperature range and Safety/EMI/EMS compliance, rBOX101-6COM is ideal for intelligent computing and communication solutions in critical environments such as power utility,

The ready-to-run rBOX101-6COM equipped with AXView monitoring software is a total solution for power plant automation, facility monitoring systems, intelligent transportation systems, and more.

Specifications

Standard Color	Sliver-Black			Power Consumption	With no load on 2 USB ports:
Construction	Extruded aluminum and heary-duty steel, IP30			(COM port link up)	1.05A @ 12V, 12.6W
CPU	Intel® Atom™ processor Z510 PT (1.1 GHz) or Z520 PT (1.33 GHz)				0.53A @ 24V, 12.72W
System Board	RM820				0.36A @ 36V, 12.96W
System Memory	1 x 200-pin DDR2 SO-	DIMM max. up to 2 GB			0.28A @ 48V, 13.44W
System I/O Outlet	6 x isolated RS-232/422/485 (COM 1~6)				With full load on 2 USB ports
	1 x isolated 10/100/1	000Mbps Ethernet			1.48A @ 12V, 17.76W
	1 x isolated 10/100Ml	ops Ethernet			0.74A @ 24V, 17.76W
	2 x USB 2.0				0.50A @ 36V, 18W
	1 x isolated DIO (4 in/out)			0.38A @ 48V, 18.24W	
	1 x VGA		Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)	
	1 x DC power input w	ith terminal block	Storage Temperature	-45°C ~ +85°C (-49	°F ~ +185°F)
Watchdog Timer	255 levels, 0 ~ 255 sec.		Humidity	5% ~ 95%	
Storage	Supports 1 x Compact	tFlash™	Weight (net/gross)	1.9 kg (4.18 lb)/ 2.24 kg (4.93 lb)	
Installation	Din-rail		Dimensions	100.6 mm (3.96") (W) x 110 mm (4.33") (D)	
Power Supply	2 power paths			x 135 mm (5.31") (H)	
	Power Input Range	12-48VDC	EOS Support	XPE, WinCE, Linux, Windows® 7	
	Power Protection	DC Version:	ISO	Manufactured in an ISO9001 facility	
		OVP (over voltage protection)	Safety	UL508	
		UVP (under voltage protection)	Compliance	UL60950-1	
		Reverse protection		EN60950-1	
				IEC60950-1	
			EMI	FCC part 15, class A	4
			Compliance	EN61000-6-4	
				* EN55022	
				* EN61000-3-2	
				* EN61000-3-3	



Industrial & Embedded Computers

EMS	EN61000-6-2				
Compliance	EN61000-4-2 (ESD standards)				
,	* Contact: +/- 6 KV; criteria B				
	* Air: +/- 8 KV; criteria B				
	EN61000-4-3 (radiated RFI standards)				
	* 10V/m, 80 to 1000 MHz; 80% AM criteria A				
	EN61000-4-4 (burst standards)				
	* Signal ports: +/- 2 KV; criteria B				
	* DC power ports: +/- 2 KV; criteria B				
	EN61000-4-5 (surge standards)				
	* Signal ports: +/- 1 KV; line-to-line; criteria B				
	* DC power ports: +/- 0.5 KV; line-to-earth; criteria B				
	EN61000-4-6 (induced RFI standards)				
	* Signal ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM				
	criteria A				
	* DC power ports: 10 Vrms @ 0.15 ~ 80 MHz; 80% AM criteria A				
	EN61000-4-8 (magnetic field standards)				
	* 30 A/m @ 50, 60 Hz; criteria A				
Environmental Test	IEC60068-2-6 Fc (vibration resistance)				
Compliance	5 g @ 10 ~ 150 Hz, amplitude 0.35 mm				
	(operation/storage/transport)				
	IEC60068-2-27 Ea (shock) 25 g @ 11 ms				
	(half-sine shock pulse; operation);				
	50 g @ 11 ms (half-sine shock pulse;				
	storage/transport)				
	IEC60068-2-32 Ed (free fall) 1 M (3.281ft)				

Ordering Information

	Standard
rBOX101-6COM-FL 1.1G	Fanless embedded system with Intel® Atom™ processor Z510PT 1.1 GHz
rBOX101-6COM-FL 1.33G	Fanless embedded system with Intel® Atom™ processor Z520PT 1.33 GHz
	Optional
DDR2 SODIMM	1 GB ~ 2 GB (with W.T. memory)
DDR2 SODIMM	1 GB ~ 2 GB (with 0°C ~ +85°C memory; operating temperature: 0°C ~ +70°C)
CompactFlash™	1 GB or above (with W.T. CF)

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Embedded Systems for

Embedded Field Controllers

Embedded MicroBoxes

Industrial Barebone Systems

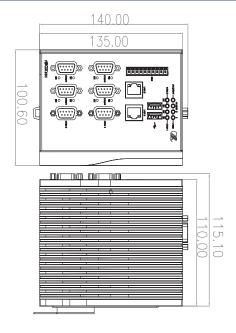
Industrial Chassis

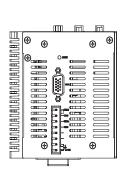
Backplanes

Power Supplies

Peripherals 8 Accessories

Dimensions





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Assured Systems

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US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660